



KANSAS CORPORATION COMMISSION 1113779
OIL & GAS CONSERVATION DIVISION

Form ACO-1

June 2009

Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

API No. 15 - _____

Spot Description: _____

_____-_____-_____- Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1113779

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method: Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Mid-Continent Resources, Inc.
Well Name	Gillig 6-23
Doc ID	1113779

Tops

Name	Top	Datum
Anhydrite	1498	762
Heebner	3725	-1465
Lansing	3772	-1512
Base Kansas City	4114	-1854
Pawnee	4202	-1942
Ft. Scott	4277	-2017
Cherokee	4297	-2037
Mississippian	4378	-2118
RTD	4400	-2140



DRILL STEM TEST REPORT

Prepared For: **Mid-Continent Resources Inc**

PO Box 399
Garden City KS 67846

ATTN: Jason Alm

Gillig #6-23

23-19s-22w Ness,KS

Start Date: 2012.08.08 @ 21:40:00

End Date: 2012.08.09 @ 03:20:00

Job Ticket #: 47040 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.08.13 @ 13:33:55



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Mid-Continent Resources Inc
PO Box 399
Garden City KS 67846
ATTN: Jason Alm

23-19s-22w Ness, KS

Gillig #6-23

Job Ticket: 47040

DST#: 1

Test Start: 2012.08.08 @ 21:40:00

GENERAL INFORMATION:

Formation: **Cherokee Sand " A "**

Deviated: No Whipstock: 2260.00 ft (KB)

Time Tool Opened: 00:06:48

Time Test Ended: 03:20:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jim Svaty

Unit No: 58

Interval: 4295.00 ft (KB) To 4310.00 ft (KB) (TVD)

Reference Elevations: 2260.00 ft (KB)

Total Depth: 4310.00 ft (KB) (TVD)

2254.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

Serial #: 8672 Outside

Press @ Run Depth: 28.30 psig @ 4296.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.08.08

End Date:

2012.08.09

Last Calib.:

2012.08.09

Start Time: 21:40:05

End Time:

03:18:33

Time On Btm:

2012.08.09 @ 00:06:33

Time Off Btm:

2012.08.09 @ 01:21:48

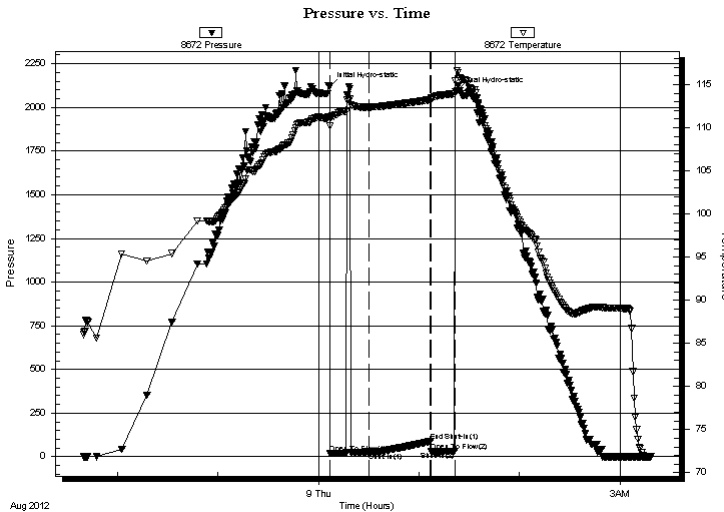
TEST COMMENT: 30-IFP- Surface Blow Died in 7 min Flushed Surface Blow Died in 6 min

30-ISIP- No Blow

15-FFP- No Blow

Pulled

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2117.87	111.32	Initial Hydro-static
1	18.32	110.18	Open To Flow (1)
24	28.30	112.38	Shut-In(1)
61	88.84	113.24	End Shut-In(1)
61	32.00	113.33	Open To Flow (2)
75	31.67	113.93	Shut-In(2)
76	2089.63	115.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Oil Speck Mud 100%	0.15

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mid-Continent Resources Inc

23-19s-22w Ness, KS

PO Box 399
Garden City KS 67846

Gillig #6-23

Job Ticket: 47040

DST#: 1

ATTN: Jason Alm

Test Start: 2012.08.08 @ 21:40:00

Tool Information

Drill Pipe:	Length: 4162.00 ft	Diameter: 3.80 inches	Volume: 58.38 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 58.97 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4295.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	43.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4268.00	
Shut In Tool	5.00			4273.00	
Hydraulic tool	5.00			4278.00	
Jars	5.00			4283.00	
Safety Joint	3.00		Fluid	4286.00	
Packer	5.00			4291.00	28.00 Bottom Of Top Packer
Packer	4.00			4295.00	
Stubb	1.00			4296.00	
Recorder	0.00	8355	Inside	4296.00	
Recorder	0.00	8672	Outside	4296.00	
Perforations	11.00			4307.00	
Bullnose	3.00			4310.00	15.00 Bottom Packers & Anchor

Total Tool Length: 43.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mid-Continent Resources Inc

23-19s-22w Ness, KS

PO Box 399
Garden City KS 67846

Gillig #6-23

Job Ticket: 47040

DST#: 1

ATTN: Jason Alm

Test Start: 2012.08.08 @ 21:40:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 44.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.13 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Oil Speck Mud 100%	0.148

Total Length: 30.00 ft Total Volume: 0.148 bbl

Num Fluid Samples: 0

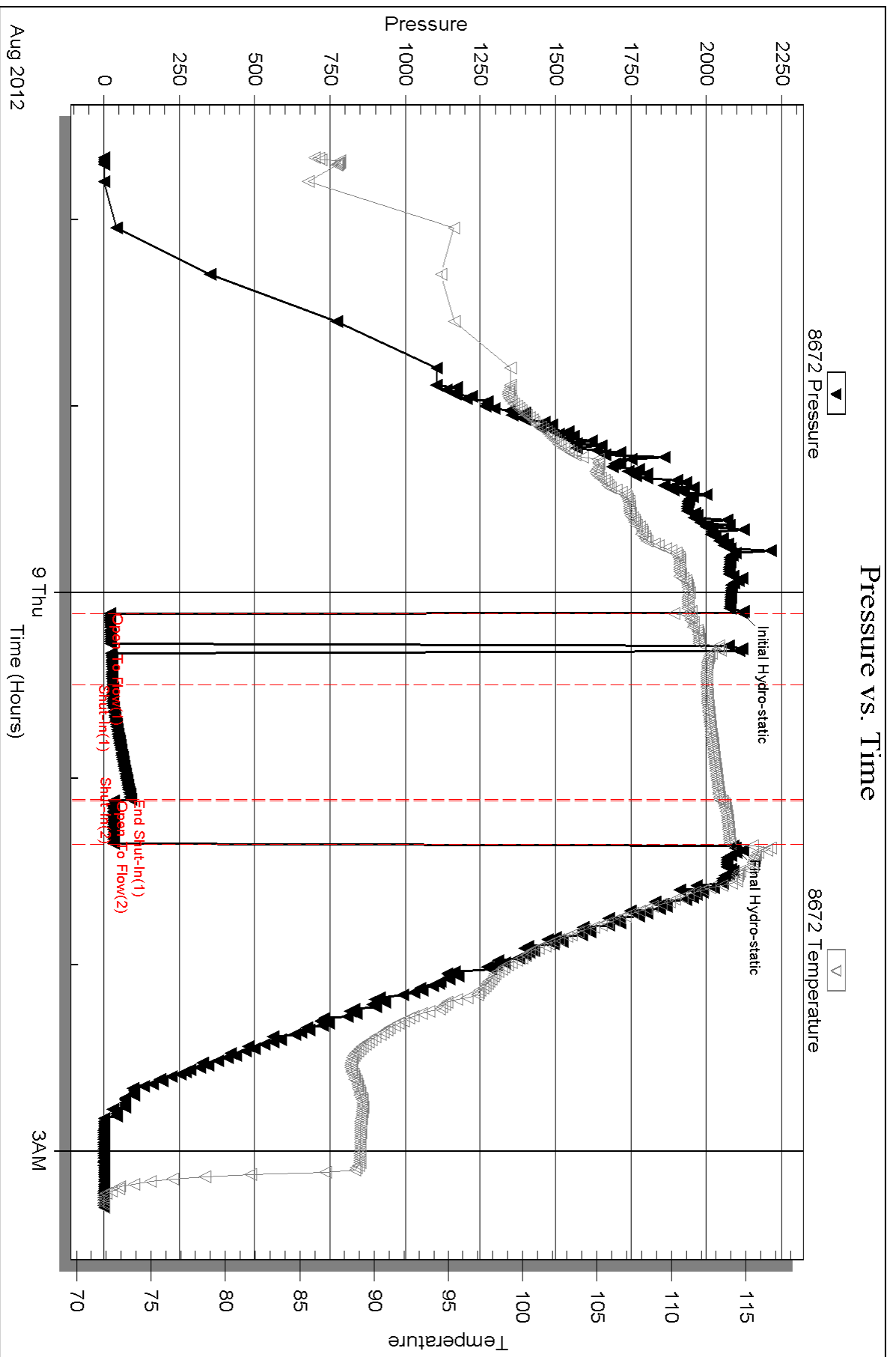
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



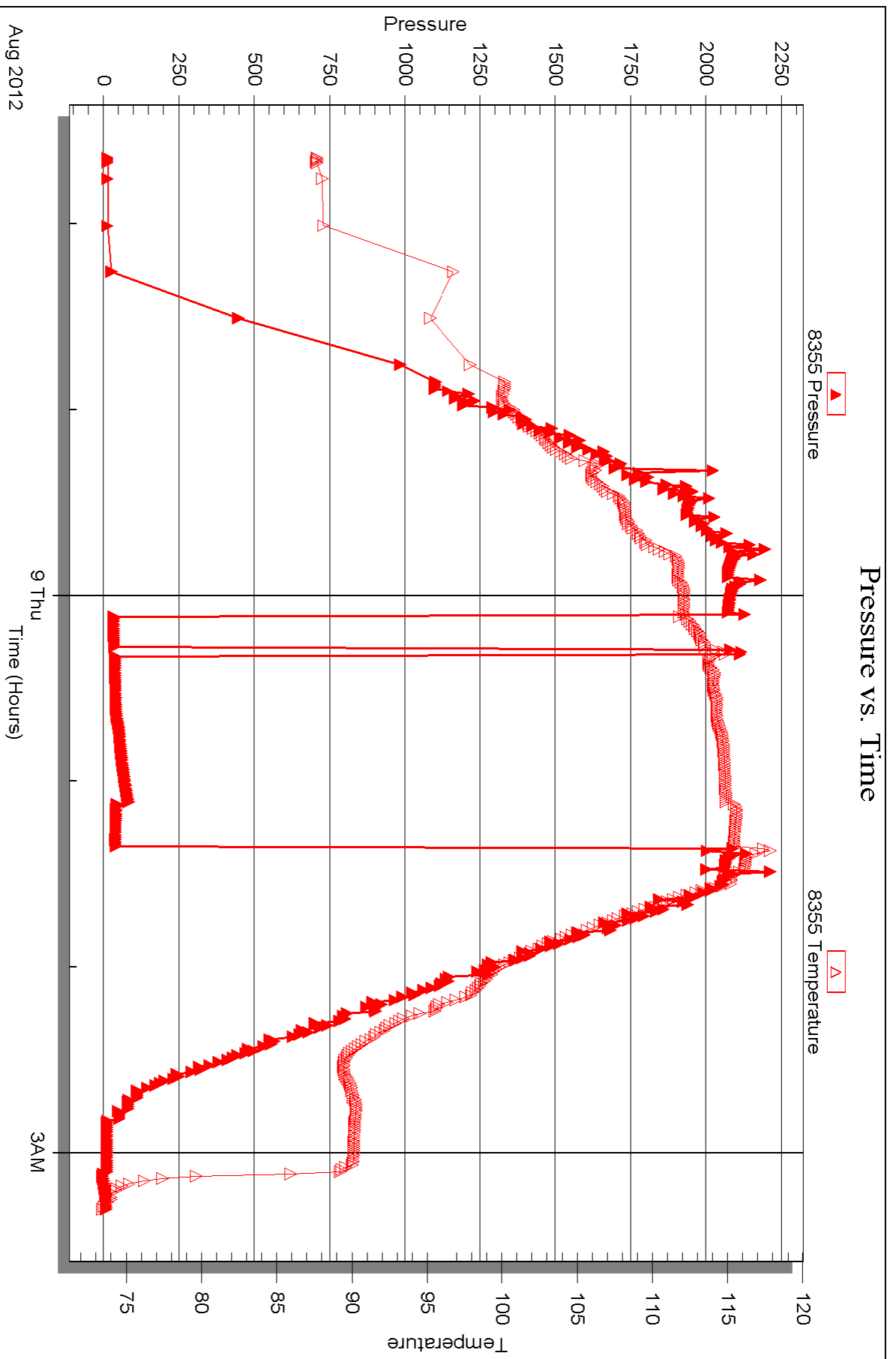
Serial #: 8355

Inside

Md-Continent Resources Inc

Gilling #6-23

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Mid-Continent Resources Inc**

PO Box 399
Garden City KS 67846

ATTN: Jason Alm

Gillig #6-23

23-19s-22w Ness,KS

Start Date: 2012.08.09 @ 14:20:00

End Date: 2012.08.09 @ 21:00:00

Job Ticket #: 47041 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.08.13 @ 13:32:51

Mid-Continent Resources Inc
23-19s-22w Ness,KS
Gillig #6-23
DST # 2
Miss
2012.08.09



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mid-Continent Resources Inc
 PO Box 399
 Garden City KS 67846
 ATTN: Jason Alm

23-19s-22w Ness, KS

Gillig #6-23

Job Ticket: 47041

DST#: 2

Test Start: 2012.08.09 @ 14:20:00

GENERAL INFORMATION:

Formation: **Miss**
 Deviated: No Whipstock: 2260.00 ft (KB)
 Time Tool Opened: 16:22:30
 Time Test Ended: 21:00:00
 Interval: **4385.00 ft (KB) To 4397.00 ft (KB) (TVD)**
 Total Depth: 4397.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jim Svaty
 Unit No: 58
 Reference Elevations: 2260.00 ft (KB)
 2254.00 ft (CF)
 KB to GR/CF: 6.00 ft

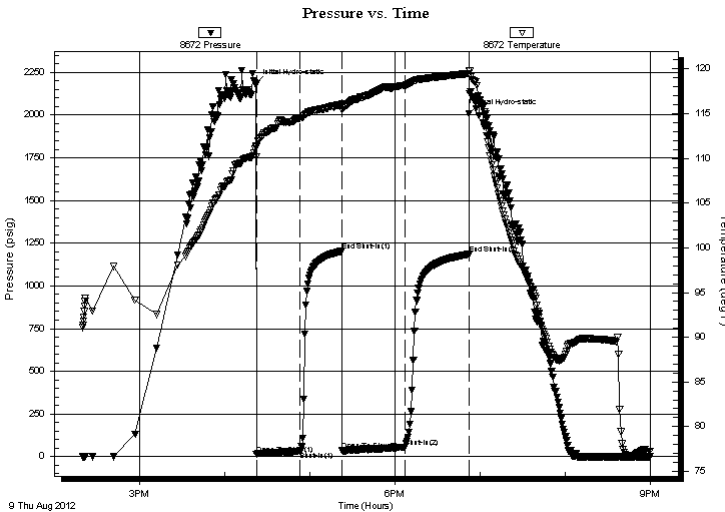
Serial #: 8672

Outside

Press @ Run Depth: 57.88 psig @ 4386.00 ft (KB)
 Start Date: 2012.08.09 End Date: 2012.08.09
 Start Time: 14:20:05 End Time: 20:59:44
 Capacity: 8000.00 psig
 Last Calib.: 2012.08.09
 Time On Btm: 2012.08.09 @ 16:22:15
 Time Off Btm: 2012.08.09 @ 18:52:30

TEST COMMENT: 30-IFP- Weak Surface Blow
 30-ISIP- No Blow
 45-FFP- Surface Blow Building to 5"
 45-FSIP- Weak Surface Blow Died in 5 min

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2182.52	111.34	Initial Hydro-static
1	16.59	110.17	Open To Flow (1)
31	33.11	114.48	Shut-In(1)
61	1204.72	116.06	End Shut-In(1)
61	36.90	115.46	Open To Flow (2)
105	57.88	118.16	Shut-In(2)
150	1185.09	119.49	End Shut-In(2)
151	2008.67	119.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	MCO 5%w 95%o	0.07
35.00	W&MCO 5%w 40%w 45%o	0.17
60.00	OCM 20%w 80%w	0.30
0.00	120 GIP	0.00

* Recovery from multiple tests

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mid-Continent Resources Inc

23-19s-22w Ness, KS

PO Box 399
Garden City KS 67846

Gillig #6-23

Job Ticket: 47041

DST#: 2

ATTN: Jason Alm

Test Start: 2012.08.09 @ 14:20:00

Tool Information

Drill Pipe:	Length: 4257.00 ft	Diameter: 3.80 inches	Volume: 59.71 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 60.30 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4385.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	12.00 ft			
Tool Length:	40.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4358.00	
Shut In Tool	5.00			4363.00	
Hydraulic tool	5.00			4368.00	
Jars	5.00			4373.00	
Safety Joint	3.00		Fluid	4376.00	
Packer	5.00			4381.00	28.00 Bottom Of Top Packer
Packer	4.00			4385.00	
Stubb	1.00			4386.00	
Recorder	0.00	8355	Inside	4386.00	
Recorder	0.00	8672	Outside	4386.00	
Perforations	8.00			4394.00	
Bullnose	3.00			4397.00	12.00 Bottom Packers & Anchor

Total Tool Length: 40.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mid-Continent Resources Inc

23-19s-22w Ness,KS

PO Box 399
Garden City KS 67846

Gillig #6-23

Job Ticket: 47041

DST#: 2

ATTN: Jason Alm

Test Start: 2012.08.09 @ 14:20:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

39 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.37 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
15.00	MCO 5%m 95%o	0.074
35.00	W&MCO 5%w 40%m 45%o	0.172
60.00	OCM 20%o 80%m	0.295
0.00	120 GIP	0.000

Total Length: 110.00 ft

Total Volume: 0.541 bbl

Num Fluid Samples: 0

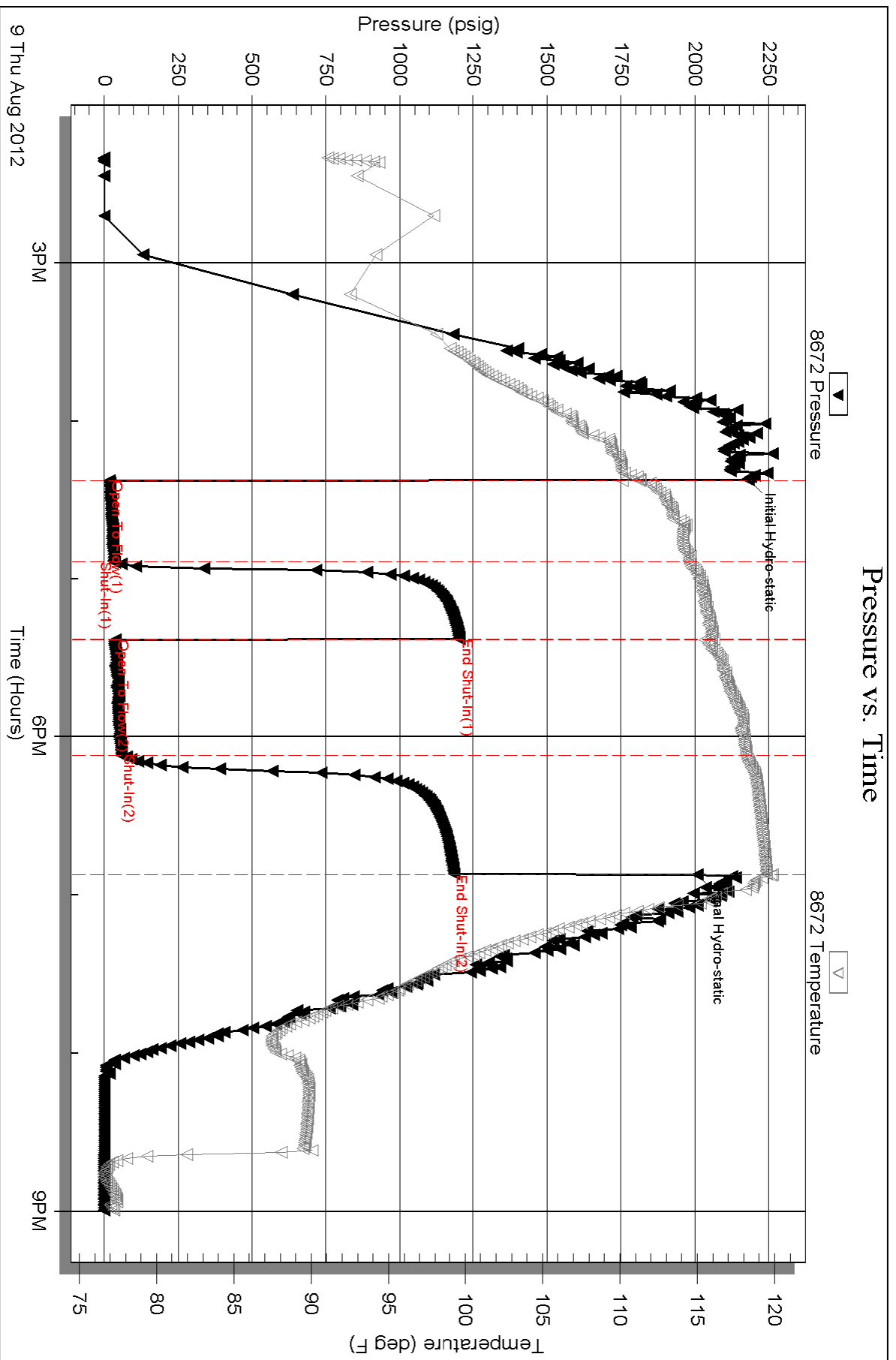
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



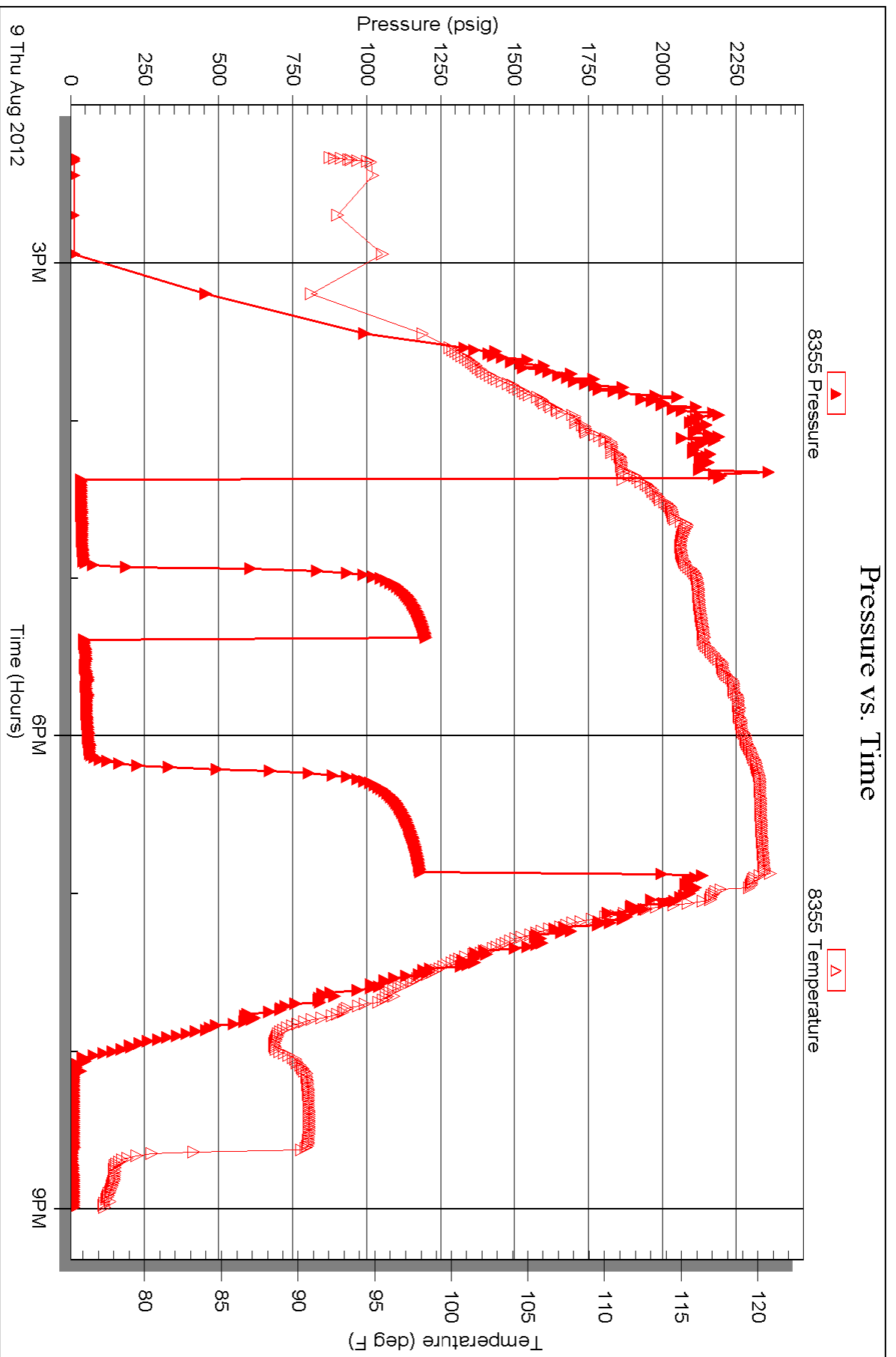
Serial #: 8355

Inside

Md-Continent Resources Inc

Gilling #6-23

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 47041

Printed: 2012.08.13 @ 13:32:55



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 47040

4/10

Well Name & No. Lillig #6-23 Test No. 1 Date 8-8-12
 Company Mid-Continent Resources Inc. Elevation 2260 KB 2254 GL
 Address P.O. Box 399 Garden City Ks. 67846
 Co. Rep / Geo. JASON Alan 6355386 Rig Retromark #1
 Location: Sec. 23 Twp. 19^s Rge. 22^w Co. Ness State Ks.

Interval Tested 4295-4310 Zone Tested Cherokee Sand "A"
 Anchor Length 15 Drill Pipe Run 4162 Mud Wt. 9.2
 Top Packer Depth 4290 Drill Collars Run 120 Vis 44
 Bottom Packer Depth 4295 Wt. Pipe Run 0 WL 9.2
 Total Depth 4310 Chlorides 5400 ppm System LCM TR

Blow Description IFP - Surface Blow Died in 7min Flushed S.B. Died 6min.
ISIP - No Blow
FFP - No Blow
FSIP - Pulled

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>Oil Speck Mud.</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 30 BHT 114 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic Test 1250 T-On Location 20:50
 (B) First Initial Flow Jars 250 T-Started 21:40
 (C) First Final Flow Safety Joint 75 T-Open 00:08
 (D) Initial Shut-In Circ Sub T-Pulled 01:23
 (E) Second Initial Flow Hourly Standby T-Out 03:20
 (F) Second Final Flow Mileage 108 RT 167.40 Comments _____
 (G) Final Shut-In Sampler _____
 (H) Final Hydrostatic Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1742.40
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1742.40

Approved By _____ Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 47041

4/10

Well Name & No. Gillig #6-23 Test No. 2 Date 8-9-12
 Company Mid-Continent Resources Inc Elevation 2260 KB 2254 GL
 Address P.O. Box 399 Gardner City KS 67846
 Co. Rep / Geo. JASON Alm Rig Petromark #1
 Location: Sec. 23 Twp. 19S Rge. 22W Co. Ness State KS

Interval Tested 4385-4397 Zone Tested Miss
 Anchor Length 12 Drill Pipe Run 4257 Mud Wt. 9.3
 Top Packer Depth 4380 Drill Collars Run 120 Vis 47
 Bottom Packer Depth 4385 Wt. Pipe Run 0 WL 8.4
 Total Depth 4397 Chlorides 7000 ppm System LCM 0

Blow Description IFP - Weak Surface Blow
ISIP - No Blow
FFP - Surface Blow Building to 5in.
FSIP - Weak Surface Blow Ried in 5min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>MO</u>	<u>95</u>		<u>5</u>	
<u>35</u>	<u>W&MCO</u>	<u>45</u>	<u>5</u>	<u>40</u>	
<u>60</u>	<u>OCM</u>	<u>20</u>		<u>80</u>	
<u>120</u>	<u>YIP</u>				
Rec Total <u>110</u>	BHT <u>119</u>	Gravity <u>39</u>	API RW	@	°F Chlorides ppm

(A) Initial Hydrostatic 2182 Test 1250 T-On Location 12:55
 (B) First Initial Flow 16 Jars 250 T-Started 14:20
 (C) First Final Flow 33 Safety Joint 75 T-Open 16:23
 (D) Initial Shut-In 1204 Circ Sub T-Pulled 18:53
 (E) Second Initial Flow 36 Hourly Standby T-Out 21:00
 (F) Second Final Flow 57 Mileage 108 RT 167.40
 (G) Final Shut-In 1185 Sampler
 (H) Final Hydrostatic 2008 Straddle Ruined Shale Packer

Initial Open 30 Shale Packer Ruined Packer
 Initial Shut-In 30 Extra Packer Extra Copies
 Final Flow 45 Extra Recorder Sub Total 0
 Final Shut-In 45 Day Standby Total 1742.40
 Accessibility MP/DST Disc't
 Sub Total 1742.40

Approved By _____ Our Representative [Signature]

TriLOBite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

Geological Report

Mid-Continent Resources, Inc.

Gillig #6-23

1700' FSL & 1550' FEL

Sec. 23 T19s R22w

Ness County, Kansas



Mid-Continent Resources, Inc.

General Data

Well Data: Mid-Continent Resources, Inc.
Gillig # 6-23
1700' FSL & 1550' FEL
Sec. 23 T19s R22w
Ness County, Kansas
API # 15-135-25401-0000

Drilling Contractor: Petromark Drilling, LLc Rig #1

Geologist: Jason T. Alm

Spud Date: August 2, 2012

Completion Date: August 10, 2012

Elevation: 2254' Ground Level
2282' Kelly Bushing

Directions: Bazine KS, Intersection of Austin St. and Hwy 96,
South 5 mi. to 80 Rd. West 1 mi. to CC Rd. South
½ mi. to tank batteries, West into location.

Casing: 224' 8 5/8" surface casing
4399' 5 1/2" production casing

Samples: 10' wet and dry, 4000' to RTD

Drilling Time: 3600' to RTD

Electric Logs: None

Drillstem Tests: Two, Trilobite Testing, Inc. "Jim Svaty"

Problems: None

Remarks: None

Formation Tops

Formation	Mid-Continent Res. Gillig #6-23 Sec. 23 T19s R22w 1700' FSL & 1550' FEL
Anhydrite	1498', +762
Base	1532', +728
Heebner	3725', -1465
Lansing	3772', -1512
BKc	4114', -1854
Pawnee	4202', -1942
Fort Scott	4277', -2017
Cherokee	4297', -2037
Mississippian	4378', -2118
RTD	4400', -2140

Sample Zone Descriptions

- Cherokee "A" Sand (4304', -2044):** **Covered in DST #1**
 Ss – Quartz, Sl. Frosted, fine grained, sub-angular, well sorted, fair to well cemented with poor inter-granular porosity, light spotted oil stain in porosity, no show of free oil, no odor, dull yellow fluorescents, 20 units hotwire.
- Mississippian Osage (4378', -2118):** **Covered in DST #2**
 Dolo – Δ – Fine sucrosic crystalline with fair inter-crystalline and vuggy porosity, heavy chert, triptolitic, mostly weathered with good vuggy porosity, fair to good oil stain and saturation, good show of free oil, good odor, bright yellow fluorescents, 22-35 units hotwire.

Summary

The location for the Gillig #6-23 was found via 3-D seismic survey. The new well ran structurally as expected via the survey. Two drill stem tests were conducted one of which recovered commercial amounts of oil from the Mississippian Osage Formation. After all gathered data had been examined the decision to run 5 ½ inch production casing to further evaluate the Gillig #6-23 well.

Recommended Perforations

Primary:

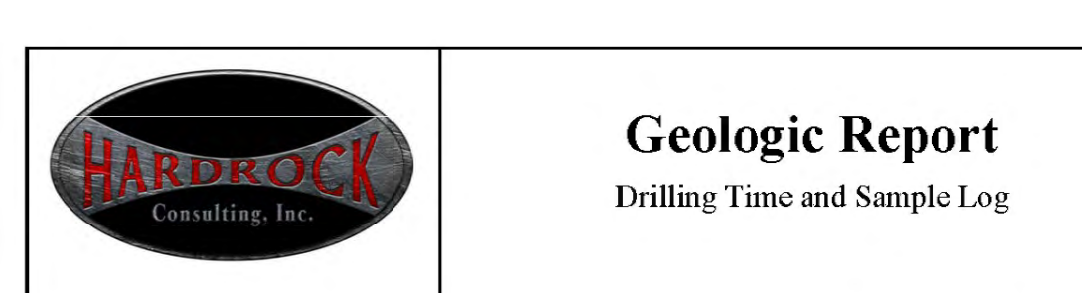
Mississippian Osage (4378' – 4398') DST #2

Before abandonment:

Cherokee "A" Sand (4300' – 4310') DST #1

Respectfully Submitted,

Jason T. Alm
Hard Rock Consulting, Inc.



Geologic Report

Drilling Time and Sample Log

Operator Mid-Continent Resources, Inc.		Elevation KB 2260'
Lease Gillig	No. 6-23	DF 2254'
API # 15-135-25401-0000		Casing Record Surface 8 5/8" @ 224'
Field Schaben		Production 5 1/2" @ 4399'
Location 1700' FSL & 1550' FEL		Electrical Surveys None
Sec. 23	Twp. 19s	Rge. 22w
County Ness	State Kansas	

Formation	Log Tops	Sample Tops	Struct Comp
Anhydrite		1498' +762	+8
Base		1532' +728	+4
Heebner		3725' -1465	+4
Lansing		3772' -1512	+8
BKc		4114' -1854	NA
Pawnee		4202' -1942	+2
Fort Scott		4277' -2017	+3
Cherokee		4297' -2037	+1
Mississippian		4378' -2118	+2
Total Depth		4400' -2140	

Reference Well For Structural Comparison **Imperial Oil of Kansas Ryersee B #1**
810' FSL & 1980' FEL Sec. 35 T18s R21w

Drilling Contractor **Petromark Drilling, LLC Rig #1**
 Commenced **8-2-2012** Completed **8-10-2012**
 Samples Saved From **4000'** To **RTD**
 Drilling Time Kept From **3600'** To **RTD**
 Samples Examined From **4000'** To **RTD**
 Geological Supervision From **4100'** To **RTD**

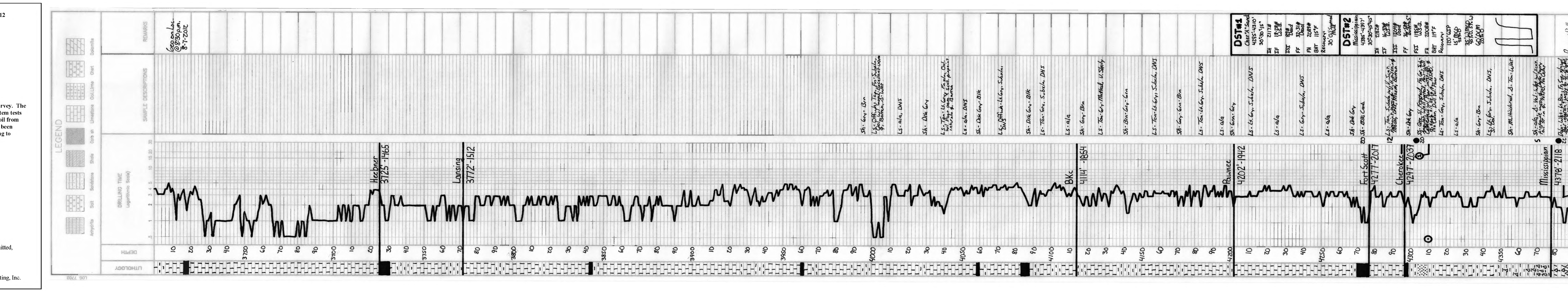
Displacement **3500'** Mud Type **Chemical**

Summary and Recommendations

The location for the Gillig #6-23 was found via 3-D seismic survey. The new well ran structurally as expected via the survey. Two drill stem tests were conducted one of which recovered commercial amounts of oil from the Mississippian Osage Formation. After all gathered data had been examined the decision was made to run 5 1/2 in. production casing to further evaluate the Gillig #6-23 well.

Respectfully Submitted,

Jason T Alm
Hard Rock Consulting, Inc.



Date 8-2-12 District Great Bend, KS Ticket No. 53691
 Company Mid-Continent Rig Petromark
 Lease 271114 Well No. 6-33
 County Doss State KS
 Location _____ Field _____

CEMENT DATA: Freshwater
 Spacer Type: _____
 Amt. 10 Sks Yield _____ ft³/sk Density _____ PPG

CASING DATA: Conductor PTA Squeeze Misc
 Surface Intermediate Production Liner
 Size 8 5/8 Type new Weight 13.5 Collar Prod

LEAD: Pump Time _____ hrs. Type _____
 Excess _____
 Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG

TAIL: Pump Time 11:45 am hrs. Type Class A
30% cc 20% gel Excess _____
 Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG

Casing Depths: Top KB Bottom 223

WATER: Lead _____ gals/sk Tail _____ gals/sk Total _____ Bbls.

Drill Pipe: Size 4 1/2 Weight 16.6 Collars KH
 Open Hole: Size _____ T.D. _____ ft. P.B. to _____ ft.

Pump Trucks Used # 766 Kevin W
 Bulk Equip. Kevin W
152-700/112

CAPACITY FACTORS:
 Casing: Bbls/Lin. ft. .0637 Lin. ft./Bbl. 15.70
 Open Holes: Bbls/Lin. ft. .1455 Lin. ft./Bbl. 6.85
 Drill Pipe: Bbls/Lin. ft. .0142 Lin. ft./Bbl. 70.32
 Annulus: Bbls/Lin. ft. .4735 Lin. ft./Bbl. 13.60
 Perforations: From _____ ft. to _____ ft. Amt. _____

Float Equip: Manufacturer _____
 Shoe: Type _____ Depth _____
 Float: Type _____ Depth _____
 Centralizers: Quantity _____ Plugs Top _____ Btm. _____
 Stage Collars _____
 Special Equip. _____
 Disp. Fluid Type Native Amt. _____ Bbls. Weight _____ PPG
 Mud Type _____ Weight _____ PPG

COMPANY REPRESENTATIVE _____

CEMENTER Greg R

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
						On location, Rig up, hold job & safety meeting
						Run 8 5/8 casing
						Circulate casing with Rig mud
				10		Hook up cement, pump run 10 bbl fresh water ahead
		33.25	33.25			Mix 150 sks Class A 30% cc 20% gel
		46.50	13.25			Displace w/ 13.25 BBL fresh water
						Shut in - Cement did circulate
						Rig down



Services, Inc.

CHARGE TO: MID CONTINENT RESOURCES
 ADDRESS
 CITY, STATE, ZIP CODE

TICKET NO 22207

PAGE 1 OF 2

SERVICE LOCATIONS: *Wm 14, KS*

WELL/PROJECT NO: *6-23* LEASE: *G-111's* COUNTY/PARISH: *Mad* STATE: *KS* CITY: *Bazina* DATE: *10 AUG 12* OWNER: *10*

TICKET TYPE: SERVICE SALES CONTRACTOR: *Retrowork* RIG NAME/NO: *1* SHIPPED: *W/T* DELIVERED TO: *location* ORDER NO.:

WELL TYPE: *0,1* WELL CATEGORY: *Dive point* JOB PURPOSE: *convert long string* WELL PERMIT NO.:

WELL LOCATION: *23-195-22W*

INVOICE INSTRUCTIONS:

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE	TAX	UNIT	PRICE	AMOUNT
		LOC	ACCT	DF						
575					1					
578					1					
402					1					
403					1					
404					1					
406					1					
407					1					
419					1					

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

DATE SIGNED: *11/0* TIME SIGNED: *11:00 AM*

REMIT PAYMENT TO:
 SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN? YES NO

WE UNDERSTOOD AND MET YOUR NEEDS? YES NO

OUR SERVICE WAS PERFORMED WITHOUT DELAY? YES NO

WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY? YES NO

ARE YOU SATISFIED WITH OUR SERVICE? YES NO

CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL: *5670.00*

TAX: *4736.25*

TOTAL: *10406.25*

CUSTOMER ACCEPTS ALL MATERIALS AND SERVICES

SWIFT OPERATOR: *AWM* APPROVAL: *AWM*

Thank You!



PO Box 466
Ness City, KS 67560
Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 23267

CUSTOMER	WELL	DATE	PAGE
MINI CONTINENT RESOURCES	5.11g 6-23	10 AUG-12	21 OF 2
325	STANDARD cement (For 42)	13.50	2362.50
284	calsonic	35.00	280.00
283	Salt	0.20	180.00
292	halad 322	7.75	968.75
276	Fiberite	2.00	100.00
281	MIX FLU1	1.25	625.00
281	KCh Diquid	25.00	50.00
290	D-AIR	35.00	70.00
582	Draved (MIN)	250.00	250.00
581	SERVICE CHARGE	2.00	350.00
TOTAL WEIGHT		4736.25	
LOADED MILES			
CUBIC FEET			
TON MILES			

JOB LOG

SWIFT Services, Inc.

DATE 10 AUG 12 PAGE NO.

CUSTOMER MID CONTINENT Resources WELL NO. 6-23 LEASE Ellis JOB TYPE Cement long string TICKET NO. 23207

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								175 SK SA-2 cement w/ 1/4" floccule 105, 115 15.5" 5 1/2" casing - 4400 - TD = 4400'
								Cement 1, 2, 3, 4, 6, 7 Basket 5, 7D Part Collar "70 1450'
	0500							on loc TRK 114
	0530 0645							start 5 1/2" 15.5" casing in well
	0915							circulate Dropball - ROTATE
	0935		12				200	Pump 500 gal mud flush
			20				200	Pump 20 bbl KCL flush
	0943		7					Plug RH 30 SKS
	0947	4 3/4	35				200	mix SA-2 cement 1455 SKS @ 15.3 gpm
								Drop latch drum plug
								wash out pump & line
	0958	6 3/4					200	Displace plug
		6 3/4	95				850	
	1015	6 3/4	104				1500	Land plug
								Release pressure to truck - dried up
	1020							wash truck
								Rack up
	1055							job complete
								Trucks Rob, Dave & Blaine



Services, Inc.

CHARGE TO: *Mid Continent Resources*
 ADDRESS
 CITY, STATE, ZIP CODE

TICKET
 No 21887

PAGE 1 OF 1

SERVICE LOCATIONS: *Hays, KS* WELL/PROJECT NO: *6-23* LEASE: *Gilling* COUNTY/PARISH: *Ness* STATE: *KS* CITY: DATE: *8-11-12* OWNER:
 ADDRESS: *Ness Co, KS* CONTRACTOR: *H-D* RIG NAME/NO.:
 TICKET TYPE: SERVICE SALES
 WELL TYPE: *211* WELL CATEGORY: *infield* JOB PURPOSE: *Revent 101 Oil* DELIVERED TO: *S. P. ...*
 REFERRAL LOCATION: INVOICE INSTRUCTIONS: *infield* WELL PERMIT NO.: WELL LOCATION:

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT	DF								
575		1			* 113	25	mi				600	15000
576 D		1			Heavy Charge - cut Pc	1	pc	1400	ft		125000	125000
290		1			D. Air	2	gal				3500	7000
330		2			SWD cement	120	skt				1650	198000
276		2			Fiberglass (175 skt)	44	lbs				200	88000
581		2			Service Charge - Cement	175	skt				17371	3000
582		2			Minimum Drayage	100	17415	lb			35000	35000

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

DATE SIGNED: *8-11-12* TIME SIGNED: *1:00* A.M. P.M.

Signed by: *Scott C. by Don L.*

REMIT PAYMENT TO:
 SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

SURVEY: OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN? WE UNDERSTOOD AND MET YOUR NEEDS? OUR SERVICE WAS PERFORMED WITHOUT DELAY? WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY? ARE YOU SATISFIED WITH OUR SERVICE? CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL: *7* TAX: *6.3%* TOTAL: *4272.69*

SWIFT OPERATOR: *[Signature]* APPROVAL: *[Signature]*

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE July 12 PAGE NO. 1

CUSTOMER Mid Continent Resources WELL NO. 6-23 LEASE Gillig JOB TYPE Concrete Foot Collar TICKET NO. 21857

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1400							On location - 175 SKS SWD
								Set up Tools
								P.C. @ 1480' = 5.7 lbs & 45.7 Ann
						1000	1000	Tst P.C closed 1000# - OK
		3	3			C	200	Open P.C - Inj rate
						C	C	Heat to 70g
		3				200	C	Start SWD cont @ 11.2#/gal
		3	50			200	C	Cont circ to pit @ 90 SKS
		3	10			200	C	Mix 30 SKS @ 13.5#
		3	60			150	C	Fin cont - 200 Displ 4 BBL H ₂ O
			64			C	1000	P.C closed - Tst - OK
								Rig run 7 Its
			20				175	Run-out 2 flags - clean
								Wash up & Rekey Tools
	1545							Job complete
								Thanks Lou, Brian & T.J
								20 SKS @ 11.2# to Pit
								120 Total cont Used